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L1	8	associat$4 same chang$4 same (database$1 db$1 (data adj base$1)) same identifier$1 same join$4 same operation$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/14 10:32
L2	3	associat$4 same chang$4 same (database$1 db$1 (data adj base$1)) same identifier$1 same join$4 same operation$1 same perform$4 same transaction$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/14 10:33
L3	11	commit$4 same transaction$1 same identifier$1 same chang$4 same number$1 same (database$1 db$1 (data adj base$1)) same object$1 same tim$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/14 10:35
L4	7	commit$1 same transaction$1 same identifier$1 same chang$4 same number$1 same (database$1 db$1 (data adj base$1)) same object$1 same tim$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/14 10:35
L5	7	commit same transaction$1 same identifier$1 same chang$4 same number$1 same (database$1 db$1 (data adj base$1)) same object$1 same tim$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/14 10:35

Terms used
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1 Effective timestamping in databases
Kristian Torp, Christian S. Jensen, Richard Thomas Snodgrass
February 2000 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 8 I
Publisher: Springer-Verlag New York, Inc.
Full text available: pdf(198.04 KB) Additional Information: full citation, abstract, citings, index terms

Many existing database applications place various timestamps on their data, rendering temporal values prevalent in database tables. During the past two decades, several dozen temporal data models have a being integral components. The models have used timestamps for encoding two specific temporal aspe transaction time, when the facts are current in the database, and valid time, when the facts are true in

Keywords: Timestamping, Transactions

2 Computing curricula 2001
September 2001 **Journal on Educational Resources in Computing (JERIC)**
Publisher: ACM Press
Full text available: pdf(613.63 KB) html(2.78 KB) Additional Information: full citation, references, citings, index terms

3 Concurrency control in advanced database applications
Naser S. Barghouti, Gail E. Kaiser
September 1991 **ACM Computing Surveys (CSUR)**, Volume 23 Issue 3
Publisher: ACM Press
Full text available: pdf(4.69 MB) Additional Information: full citation, references, citings, index terms

Keywords: advanced database applications, concurrency control, cooperative transactions, design env models, long transactions, object-oriented databases, relaxing serializability

4 A prototype implementation of the SQL Ada module extension (SAME) method
Allison LeClair, Susan Phillips
December 1990 **Proceedings of the conference on TRI-ADA '90**
Publisher: ACM Press
Full text available: pdf(1.20 MB) Additional Information: full citation, abstract, references, citings

As Ada becomes more widespread, the ability to access commercial database technologies through Ada issue. Researchers throughout our industry are investigating interface approaches between Ada and th language bindings between Ada and SQL, a relational data base language. This paper presents a recen binding—the SQL Ada Module Extension (SAME) method.

5 A structured approach for the definition of the semantics of active databases

Piero Fraternali, Letizia Tanca

December 1995 **ACM Transactions on Database Systems (TODS)**, Volume 20 Issue 4

Publisher: ACM Press

Full text available: pdf(4.15 MB) Additional Information: full citation, abstract, references, citings, index

Active DBMSs couple database technology with rule-based programming to achieve the capability of re external) stimuli, called events. The reactive capabilities of active databases are useful for a wide spec security, view materialization, integrity checking and enforcement, or heterogeneous database integrat very promising for the near future. An active database system consists of ...

Keywords: active database systems, database rule processing, events, fixpoint semantics, rules, sem

6 The STRIP rule system for efficiently maintaining derived data

Brad Adelberg, Hector Garcia-Molina, Jennifer Widom

June 1997 **ACM SIGMOD Record , Proceedings of the 1997 ACM SIGMOD international confer SIGMOD '97**, Volume 26 Issue 2

Publisher: ACM Press

Full text available: pdf(1.68 MB) Additional Information: full citation, abstract, references, citings, index

Derived data is maintained in a database system to correlate and summarize base data which records changes, derived data needs to be recomputed. This is often implemented by writing active rules that data. In a system with rapidly changing base data, a database with a standard rule system may consu rules to recompute data. This paper presents the rule system implemented as part of the STandard Re

7 Deadlock detection in distributed database systems: a new algorithm and a comparative perform

Natalija Krivokapić, Alfons Kemper, Ehud Gudes

October 1999 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 8 I

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(289.96 KB) Additional Information: full citation, abstract, citings, index terms

This paper attempts a comprehensive study of deadlock detection in distributed database systems. Firs models in these systems and the four different distributed deadlock detection approaches are discusse detection algorithm is presented. The algorithm is based on dynamically creating *deadlock detection ag* responsible for detecting deadlocks in one connected component of the global wait-for-graph (WFG). T

Keywords: Comparative performance analysis, Deadlock detection, Distributed database systems, Sin

8 Shape-based retrieval and analysis of 3D models

Thomas Funkhouser, Michael Kazhdan

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available: pdf(12.56 MB) Additional Information: full citation, abstract

Large repositories of 3D data are rapidly becoming available in several fields, including mechanical CA computer graphics. As the number of 3D models grows, there is an increasing need for computer algor interesting ones and discover relationships between them. Unfortunately, traditional text-based search effective for 3D models, especially when queries are geometric in nature (e.g., find me objects that fit

9 Concurrency control: methods, performance, and analysis

Alexander Thomasian

March 1998 **ACM Computing Surveys (CSUR)**, Volume 30 Issue 1
Publisher: ACM Press
Full text available: pdf(427.18 KB) Additional Information: full citation, references, citings, index terms

Keywords: Markov chains, adaptive methods, concurrency control, data contention, deadlocks, flow d concurrency control, queueing network models, restart-oriented locking methods, serialiazability, thras phase processing, wait depth limited methods

10 Evaluation of remote backup algorithms for transaction-processing systems
Christos A. Polyzois, Héctor García-Molina
September 1994 **ACM Transactions on Database Systems (TODS)**, Volume 19 Issue 3
Publisher: ACM Press
Full text available: pdf(1.87 MB) Additional Information: full citation, abstract, references, citings, index

A remote backup is a copy of a primary database maintained at a geographically separate location and availability. Remote backup systems are typically log-based and can be classified into 2-safe and 1-saf transactions commit at both sites simultaneously or first commit at the primary and are later propagat an experimental database system on which we evaluated the performance of the epoch and the depen

Keywords: disaster recovery, hot spare, hot standby, remote backup

11 Consistency and orderability: semantics-based correctness criteria for databases
Divyakant Agrawal, Amr El Abbadi, Ambuj K. Singh
September 1993 **ACM Transactions on Database Systems (TODS)**, Volume 18 Issue 3
Publisher: ACM Press
Full text available: pdf(1.92 MB) Additional Information: full citation, abstract, references, citings, index

The semantics of objects and transactions in database systems are investigated. User-defined predicat are used to specify user programs. Three new correctness criteria are proposed. The first correctness c solely on the users' specifications and admit nonserializable executions that are acceptable to the user database are maintained through consistency assertions. Th ...

Keywords: concurrency control, object-oriented databases, semantics, serializability theory

12 Highly concurrent cache consistency for indices in client-server database systems
Markos Zaharioudakis, Michael J. Carey
June 1997 **ACM SIGMOD Record , Proceedings of the 1997 ACM SIGMOD international confer SIGMOD '97**, Volume 26 Issue 2
Publisher: ACM Press
Full text available: pdf(1.81 MB) Additional Information: full citation, abstract, references, citings, index

In this paper, we present four approaches to providing highly concurrent B+-tree indices in the contex OODBMS architecture. The first performs all index operations at the server, while the other approaches client caching and usage of index pages. We have implemented the four approaches, as well as the 2P SHORE OODB system at Wisconsin, and we present experimen ...

13 Maintaining availability in partitioned replicated databases
A. El Abbadi, S. Toueg
June 1989 **ACM Transactions on Database Systems (TODS)**, Volume 14 Issue 2
Publisher: ACM Press
Full text available: pdf(2.32 MB) Additional Information: full citation, abstract, references, citings, index

In a replicated database, a data item may have copies residing on several sites. A replica control proto

data items with several copies behave as if they consist of a single copy, as far as users can tell. We de protocol that allows the accessing of data in spite of site failures and network partitioning. This protoco with a large degree of flexibility in deciding the degree of data availability, as w ...

14 The overhead of locking (and commit) protocols in distributed databases

Ouri Wolfson

September 1987 **ACM Transactions on Database Systems (TODS)**, Volume 12 Issue 3

Publisher: ACM Press

Full text available: pdf(1.56 MB) Additional Information: full citation, abstract, references, citings, index

The main purpose of a locking protocol is to ensure correct interleaving of actions executed by concurr protocol consists of a set of rules dictating how accessed entities should be locked and unlocked. As a r transactions in a distributed database incur an overhead. We propose three measures of evaluating thi to a different type of underlying communication network. Then, using a graph theoretic model, we ...

15 1/k phase stamping for continuous shared data (extended abstract)

Sumeer Bhola, Mustaque Ahamad

July 2000 **Proceedings of the nineteenth annual ACM symposium on Principles of distribute**

Publisher: ACM Press

Full text available: pdf(1.08 MB) Additional Information: full citation, abstract, references, index terms

Interactive distributed applications are a relatively new class of applications that are enabled by sharin across distributed sites (and users). The characteristics of application data include very fine-grained up a subset of the shared data, masking of update effects, and irregular locality and contention for access approaches are not appropriate for programming such continuous shared data in ...

16 Syntactic graphs: a representation for the union of all ambiguous parse trees

Jungyun Seo, Robert F. Simmons

March 1989 **Computational Linguistics**, Volume 15 Issue 1

Publisher: MIT Press

Full text available: pdf(1.38 MB) Publisher Site Additional Information: full citation, abstract, references, citings

In this paper, we present a new method of representing the surface syntactic structure of a sentence. linguistics and natural language processing to represent syntactic structures of a sentence. A tree struc syntactic parse of a sentence, but in order to choose a correct parse, we need to examine all possible t Syntactic graph representation makes it possible to represent all possible surface syntactic relation ...

17 Anatomy of a native XML base management system

T. Fiebig, S. Helmer, C.-C. Kanne, G. Moerkotte, J. Neumann, R. Schiele, T. Westmann

December 2002 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 11

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(300.97 KB) Additional Information: full citation, abstract, citings, index terms

Several alternatives to manage large XML document collections exist, ranging from file systems over re systems to specifically tailored XML base management systems. In this paper we give a tour of Natix, a designed from scratch for storing and processing XML data. Contrary to the common belief that manag another application for traditional databases like relational systems, we illustrate how almost every cor

Keywords: Database, XML

18 Concurrency control by transactions carrying states and preordering universioned entities

Mohan L. Ahuja, J. C. Browne

February 1988 **Proceedings of the 1988 ACM sixteenth annual conference on Computer science**

Publisher: ACM Press

Full text available: pdf(1.41 MB) Additional Information: full citation, abstract, references, index terms

In this paper, we present a concurrency control protocol for databases with universioned entities; the c centralized or distributed and may or may not have data replication. In this protocol, entities are assig possible each transaction accesses entities in this order, entities that need not be accessed by a transa transaction, and out-of-order accesses are permitted at an additional cost. Also, each transaction carr .

19 Intelligent database caching through the use of page-answers and page-traces

Nabil Kamel, Roger King

December 1992 **ACM Transactions on Database Systems (TODS)**, Volume 17 Issue 4

Publisher: ACM Press

Full text available: pdf(3.08 MB) Additional Information: full citation, abstract, references, citings, index

In this paper a new method to improve the utilization of main memory systems is presented. The new main memory a number of query answers, each evaluated out of a single memory page. To this end, tl page-traces are formally described and their properties analyzed. The query model used here allows fo recursive queries as well as arbitrary combinations. We also show how to apply the approach under up

Keywords: artificial intelligence, databases, page access

20 A taxonomy of correctness criteria in database applications

Krithi Ramamritham, Panos K. Chrysanthis

January 1996 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 5 I

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(218.49 KB) Additional Information: full citation, abstract, citings, index terms

Whereas serializability captures *database consistency requirements* and *transaction correctness proper* research has attempted to come up with correctness criteria that view these two types of requirements more flexible correctness criteria is partily motivated by the introduction of new transaction models tha transaction model. These extensions came about because the atomic transaction model ...

Keywords: Concurrency control, Database correctness criteria, Formal specifications, Transaction proc

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